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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	34	Attorney Docket Number	H0817.70003US00
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<i>Complete if Known</i>	
Application Number	10/567,157-Conf. #4222
Filing Date	June 1, 2006
First Named Inventor	Roberto Angelo Motterlini
Art Unit	1614
Examiner Name	A. A. Lewis

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	*	US-7,045,140	05-16-2006	Motterlini et al.	
	*	US-7,011,854	03-14-2006	Haas et al.	
	*	US-6,673,908	01-06-2004	Stanton, Jr.	
	*	US-6,645,938	11-11-2003	Oeltgen et al.	
	*	US-6,518,269	02-11-2003	Camden et al.	
	*	US-6,417,182	07-09-2002	Abrams et al.	
	*	US-6,350,752	02-26-2002	Glasky et al.	
	*	US-6,344,178	02-05-2002	Alberto et al.	
	*	US-6,338,963	01-15-2002	Glasky et al.	
	*	US-6,331,564	12-18-2001	Brugnara et al.	
	*	US-6,284,752	09-04-2001	Abrams et al.	
	*	US-6,251,927	06-26-2001	Lai et al.	
	*	US-6,242,432	06-05-2001	del Soldato	
	*	US-6,218,417	04-17-2001	Del Soldato	
	*	US-6,211,233	04-03-2001	Del Soldato	
	*	US-6,203,991	03-20-2001	Nabel et al.	
	*	US-6,177,471	01-23-2001	Menander et al.	
	*	US-6,066,333	05-23-2000	Willis et al.	
	*	US-6,060,467	05-09-2000	Buelow et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
		EP-0076493-A2	04-13-1983	Dragoco Gerberding Co. GmbH	✓
		FR-2816212-A1	05-10-2002	Air Liquide Sante Int	✓
		GB-0111872.8-A	07-03-1968	Northwick Park Institute for Medical Research	
		GB-0227135.1-A	04-13-1994	Northwick Park Institute for Medical Research	
		GB-0227138.5-A	04-13-1994	Northwick Park Institute for Medical Research	
		GB-1107510-A	03-27-1968	Merck & Co. Inc	

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	*	US-6,051,576	04-18-2000	Ashton et al.	
	*	US-6,040,341	03-21-2000	Del Soldato et al.	
	*	US-6,027,936	02-22-2000	Glasky	
	*	US-6,025,394	02-15-2000	Menander et al.	
	*	US-5,891,689	04-06-1999	Takle et al.	
	*	US-5,888,982	03-30-1999	Perrella et al.	
	*	US-5,885,621	03-23-1999	Head et al.	
	*	US-5,882,674	03-16-1999	Herrmann et al.	
	*	US-5,861,426	01-19-1999	Del Soldato et al.	
	*	US-5,824,673	10-20-1998	Abrams et al.	
	*	US-5,811,463	09-22-1998	Legzdins et al.	
	*	US-5,801,184	09-01-1998	Glasky et al.	
	*	US-5,767,157	06-16-1998	Van Moerkerken	
	*	US-5,756,492	05-26-1998	Buelow et al.	
	*	US-5,700,947	12-23-1997	Soldato	
	*	US-5,670,664	09-23-1997	Kao et al.	
	*	US-5,664,563	09-09-1997	Schroeder et al.	
	*	US-5,659,027	08-19-1997	Spielvogel et al.	
	*	US-5,631,284	05-20-1997	Legzdins et al.	

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		GB-2395431-A	05-26-2004	Northwick Park Institute for Medical Research	
		GB-2395432-A	05-26-2004	Northwick Park Institute for Medical Research	
		HU-211084-A2	12-30-1991	Brezo Magdolina et al.	
		HU-57595-A2	12-30-1991	Magdolina et al.	
		WO-85/04326-A1	10-10-1985	Biocompatibles Ltd	
		WO-91/01128-A1	02-07-1991	Eastman Kodak Co	

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	*	US-5,621,000	04-15-1997	Arena et al.	
	*	US-5,447,939	09-05-1995	Glasky et al.	
	*	US-5,350,767	09-27-1994	Hallberg et al.	
	*	US-5,312,816	05-17-1994	Spielvogel et al.	
	*	US-5,102,670	04-07-1992	Abraham et al.	
	*	US-5,086,060	02-04-1992	Haley et al.	
	*	US-5,010,073	04-23-1991	Kappas et al.	
	*	US-4,938,949	07-03-1990	Borch et al.	
	*	US-4,709,083	11-24-1987	Spielvogel	
	*	US-4,699,903	10-13-1987	Rideout et al.	
	*	US-4,668,670	05-26-1987	Rideout et al.	
	*	US-4,657,902	04-14-1987	Kappas et al.	
	*	US-4,649,151	03-10-1987	Dougherty et al.	
	*	US-4,613,621	09-23-1986	Horrmann	
	*	US-4,189,487	02-19-1980	Klosa	
	*	US-3,829,504	08-13-1974		
	*	US-3,812,166	05-21-1974	Wiechert	
	*	US-3,694,232	09-26-1972		
	*	US-3,278,570	10-11-1966	Wilkinson et al.	

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		WO-91/01301-A1	02-07-1991	Eastman Kodak Co	
		WO-92/03402-A1	03-05-1992	Firmenich SA	
		WO-92/04905-A1	04-02-1992	Abraham et al.	
		WO-94/22482-A1	10-13-1994	Biorelease Tech Inc	
		WO-95/005814	03-02-1995	Johnson Matthey Public Limited Company	
		WO-95/009831	04-13-1995	Nicox S.A.	

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		Number-Kind Code ² (<i>if known</i>)			
*	US-2,870,180		01-20-1959	Kozikowski et al.	
*	US-2008-0026984		01-31-2008	De Matos et al.	
*	US-2007-0219120		09-20-2007	De Matos et al.	
*	US-2007-0207993		09-06-2007	Haas et al.	
*	US-2007-0207217		09-06-2007	Haas et al.	
*	US-2006-0233890		10-19-2006	Haas et al.	
*	US-2006-0148900		07-06-2006	Haas et al.	
*	US-2006-0147548		07-06-2006	Motterlini et al.	
*	US-2006-0127501		06-15-2006	Motterlini et al.	
*	US-2006-0115542		06-01-2006	Motterlini et al.	
*	US-2005-0175555		08-11-2005	Stradi et al.	
*	US-2005-0048133		03-03-2005	Pinsky et al.	
*	US-2004-0228930		11-18-2004	Billiar et al.	
*	US-2004-0214900		10-28-2004	Forbes et al.	
*	US-2004-0143025		07-22-2004	Buelow et al.	
*	US-2004-0131602		07-08-2004	Buelow et al.	
*	US-2004-0067261		04-08-2004	Haas et al.	
*	US-2004-0052866		03-18-2004	Otterbein et al.	
*	US-2003-0219497		11-27-2003	Otterbein et al.	

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	WO-96/003125		02-08-1996	NeoTherapeutics	
	WO-96/009038		03-28-1996	William Harvey Research Limited	
	WO-97/16405-A1		05-09-1997	Nicox S.A.	
	WO-97/36615-A1		10-09-1997	President and Fellows of Harvard College	
	WO-97/37644-A1		10-16-1997	The General Hospital Corp.	
	WO-98/09618-A2		03-12-1998	Sangstat Medical Corporation	

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		Country Code ² -Number ³ -Kind Code ⁵ (if known)			
	WO-98/29115-A1	07-09-1998	Univ British Columbia		
	WO-98/38179-A1	09-03-1998	Glaxo Group Limited		
	WO-98/48848-A1	11-05-1998	Mallinckrodt Medical Inc et al.		
	WO-99/67231-A1	12-29-1999	Nicox S.A.		
	WO-00/36113-A2	06-22-2000	Sangstat Medical Corporation		
	WO-00/56145-A1	09-28-2000	Univ James Cook et al.		

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		Country Code ² -Number ³ -Kind Code ⁵ (if known)			
		WO-00/56743-A1	09-28-2000	Anormed Inc	
		WO-00/61537-A2	10-19-2000	Nicox S.A.	
		WO-00/10613-A2	03-02-2000	The Regents of the University of Michigan	
		WO-01/12584-A2	02-22-2001	Nicox S.A.	
		WO-01/16359-A2	03-08-2001	Univ London et al.	
		WO-01/28545-A2	04-26-2001	NeoTherapeutics	

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	WO-02/078684-A2		10-10-2002	Sangstat Medical Corp	
	WO-02/080923-A1		10-17-2002	Schmalz Hans-guenther et al.	
	WO-03/000114-A2		01-03-2003	Beth Israel Hospital et al.	
	WO-02/092072-A2		11-21-2002	Nicox S.A.	
	WO-03/067598-A2		08-14-2003	Koninklijke Philips Electronics N.V.	
	WO-03/072024-A2		09-04-2003	Beth Israel Hospital et al.	

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		WO-03/088981-A1	10-30-2003	Univ Pittsburgh et al.		
		WO-03/088923-A2	10-30-2003	Univ Pittsburgh et al.		
		WO-03/094932-A1	11-20-2003	Univ Yale et al.		
		WO-03/096977-A2	11-27-2003	Yale University		
		WO-03/103585-A2	12-18-2003	Yale University		
		WO-2004/029033-A1	04-08-2004	Kao Corporation		✓

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		WO-2004/043341-A2	05-27-2004	University of Pittsburgh of The Commonwealth System of Higher Education	
		WO-2004/045598-A1	06-03-2004	Hemocorm Limited	
		WO-2004/045599-A1	06-03-2004	Hemocorm Limited	
		WO-2004/080420-A2	09-23-2004	Mota et al.	
		WO-2005/090400-A1	09-29-2005	The University Court of the University of Glasgow	
		WO-2006/012215-A1	02-02-2006	Flexital, Inc.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/567,157-Conf. #4222
(Use as many sheets as necessary)				Filing Date	June 1, 2006
				First Named Inventor	Roberto Angelo Motterlini
				Art Unit	1614
				Examiner Name	A. A. Lewis
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U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO-2007/073226-A1	06-28-2007	Alfama - Investigação E Desenvolvimento De Produtos Farmacêuticos Lda		
		WO-2007/085806-A2	08-02-2007	Hemocorm Ltd et al.		
		WO-2008/003953-A2	01-10-2008	Hemocorm Ltd et al.		
		WO-2008/069688-A2	06-12-2008	Alfama - Investigação E Desenvolvimento De Produtos Farmacêuticos Lda		
		WO-2008/130261-A1	10-30-2008	Alfama Investigacao E Desenvol et al.		
		WO-2009/013612-A1	01-29-2009	Alfama Investigacao E Desenvol et al.		

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		[No Author Listed] "supramolecule" IUPAC compendium of chemical terminology. Retrieved from the internet at www.iupac.org/goldbook/SO6153.pdf on May 8, 2006.	
		[No Author Listed] Biosis Chem Abstracts Database. Accession No. PREV200600414130. 2005. Otterbein et al., Cell Mol Biol (Noisy-le-grand). 2005 Oct 3;51(5):433-40. Abstract.	
		[No Author Listed] Chemical Abstracts. 2002;137:119662. (FR2816212)	
		[No Author Listed] Chemical Abstracts. 2004;140:40075. (WO2004/043341)	
		[No Author Listed] Chemical Abstracts. 2004;141:270758. (Ryter et al.)	
		[No Author Listed] Chemical Abstracts. 2004;142:211995. (Stein et al.)	
		ABEL et al., Anionic halogenopentacarbonyls of chromium, molybdenum, and tungsten. J Chem Soc. 1963:2068-70.	
		ABEL et al., Carbonyl halides of manganese and some related compounds. J Chem Soc. 1959;Part 2:1501-5.	
		ABEL et al., Reaction of molybdenum carbonyl with various halides: a potassium etherate salt. Chem Indust. 1960;442.	
		ADKISON et al., Semicarbazone-based inhibitors of cathepsin K, are they prodrugs for aldehyde inhibitors? Bioorg Med Chem Lett. 2006 Feb 15;16(4):978-83. Epub 2005 Nov 15. Abstract only.	

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		AKAMATSU et al., Heme oxygenase-1-derived carbon monoxide protects hearts from transplant associated ischemia reperfusion injury. FASEB J. 2004 Apr;18(6):771-2. Epub 2004 Feb 20.	
		ALESSIO et al., Carbonyl Derivatives of Chloride-Dimethyl Sulfoxide-Ruthenium(II) Complexes: Synthesis, Structural Characterization, and Reactivity of Ru(CO)x(DMSO)4-xCl2 Complexes (x = 1-3). Inorg Chem. 1995;34(19):4722-34.	
		ALESSIO et al., Carbonyl Derivatives of Chloride-Dimethyl Sulfoxide-Ruthenium(III) Complexes: Synthesis, Crystal Structure, and Reactivity of [(DMSO)2H][trans-RuCl4(DMSO-O)(CO)] and mer,cis-RuCl3(DMSO-O)2(CO). Inorg Chem. 1995;34(19):4716-21.	
		ALLANSON et al., Ultraviolet A (320-400 nm) modulation of ultraviolet B (290-320 nm)-induced immune suppression is mediated by carbon monoxide. J Invest Dermatol. 2005 Mar;124(3):644-50.	
		ALLARDYCE et al., Development of organometallic (organotransition metal) pharmaceuticals. Appl Organomet Chem. 2005;19:1-10.	
		AMERSI et al., Ex vivo exposure to carbon monoxide prevents hepatic ischemia/reperfusion injury through p38 MAP kinase pathway. Hepatology. 2002 Apr;35(4):815-23.	
		ANDREADIS et al., Oxidative and nitrosative events in asthma. Free Radic Biol Med. 2003 Aug 1;35(3):213-25. Review. Abstract only.	
		ANGELICI et al., Carboxamido carbonyl complexes of manganese(I). Inorg Chim Acta. Mar 1968;2:3-7. Abstract only.	
		ANGELICI, Preparation, characterization, and reactions of the cis-Dihalotetracarbonylmanganate(I) anions. Inorg Chem. Aug 1964;3(8):1099-1102.	
		AUJARD et al., Tridemethylisovelleral, a potent cytotoxic agent. Bioorg Med Chem. 2005 Nov 15;13(22):6145-50. Epub 2005 Aug 1. Abstract only.	

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		BAGUL et al., Carbon monoxide protects against ischemia-reperfusion injury in an experimental model of controlled nonheartbeating donor kidney. Transplantation. 2008 Feb 27;85(4):576-81.			²
		BANI-HANI et al., Modulation of thrombin-induced neuroinflammation in BV-2 microglia by carbon monoxide-releasing molecule 3. J Pharmacol Exp Ther. 2006 Sep;318(3):1315-22. Epub 2006 Jun 13.			
		BANNENBERG et al., Therapeutic applications of the gaseous mediators carbon monoxide and hydrogen sulfide. Expert Opin Ther Pat. 2009 May;19(5):663-82. Review.			
		BARKOUDAH et al., The permissive role of endothelial NO in CO-induced cerebrovascular dilation. Am J Physiol Heart Circ Physiol. 2004 Oct;287(4):H1459-65. Epub 2004 Jun 10.			
		BAUEROVÁ et al., Role of reactive oxygen and nitrogen species in etiopathogenesis of rheumatoid arthritis. Gen Physiol Biophys. 1999 Oct;18 Spec No:15-20. Review. Abstract only.			
		BEAL, Oxidatively modified proteins in aging and disease. Free Radic Biol Med. 2002 May 1;32(9):797-803. Review. Abstract only.			
		BEATY et al., An in vitro model for the in vivo mobilization of cadmium by chelating agents using 113Cd-NMR spectroscopy. Chem Res Toxicol. 1992;5:568-75. Abstract only.			
		BECKER et al., Age-related changes in antibody-dependent cell-mediated cytotoxicity in mouse spleen. Isr J Med Sci. 1979 Feb;15(2):147-50.			
		BECKER et al., NO-independent regulatory site of direct sGC stimulators like YC-1 and BAY 41-2272. BMC Pharmacol. 2001;1:13. Epub 2001 Dec 28.			
		BERMAN et al., Sensitization and catalysis of light-induced decarbonylation of aldehydes. J Am Chem Soc. 1963;85(24):4010-4013.			

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		BOISSIERE et al., Exercise and vasorelaxing effects of CO-releasing molecules in hypertensive rats. Med Sci Sports Exerc. 2006 Apr;38(4):652-9.	
		BOTROS et al., Interaction between endogenously produced carbon monoxide and nitric oxide in regulation of renal afferent arterioles. Am J Physiol Heart Circ Physiol. 2006 Dec;291(6):H2772-8. Epub 2006 Jul 14.	
		BROOKS et al., The spoilage characteristics of ground beef packaged in high-oxygen and low-oxygen modified atmosphere packages. Proc. Reciprocal Meat Conference. University of Illinois at Urbana-Champaign. 2006.	
		BUNDGAARD et al., Pro-drugs as delivery systems. Pharm Int. 1981;2:136-40.	
		BUNDGAARD et al., Pro-drugs as drug delivery systems XX. Oxazolidines as potential pro-drug types for β-aminoalcohols, aldehydes or ketones. Intl J Pharm. Feb 1982;10(2):165-75. Abstract only.	
		BURGMAYER et al., Synthesis and structure of a 7-coordinate molybdenum carbonyl fluoride derivative - Et ₄ n Mo(Co) ₂ (S ₂ cnet ₂) ₂ f. Inorganic Chem. 1985;24:2224-30.	
		CAMPBELL et al., Molecular targets in immune-mediated diseases: the case of tumour necrosis factor and rheumatoid arthritis. Immunol Cell Biol. 2003 Oct;81(5):354-66.	
		CARROLL et al., Ligand abstraction in the reaction of aryl diazonium ions with some iron complexes containing coordinated cysteine, maleonitriledithiol, or triarylphosphine. Can J Chem. 1974;52:1914-22.	
		CEPINSKAS et al., Carbon monoxide liberated from carbon monoxide-releasing molecule CORM-2 attenuates inflammation in the liver of septic mice. Am J Physiol Gastrointest Liver Physiol, Jan 2008; 294:G184 - G191.	
		CHAKRAVORTTY et al., Inducible nitric oxide synthase and control of intracellular bacterial pathogens. Microbes Infect. 2003 Jun;5(7):621-7. Review. Abstract only.	

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		CHATTERJEE, Water-soluble carbon monoxide-releasing molecules: helping to elucidate the vascular activity of the 'silent killer'. Br J Pharmacol. 2004 Jun;142(3):391-3. Epub 2004 May 17.	
		CHLOPICKI et al., Carbon monoxide released by CORM-3 inhibits human platelets by a mechanism independent of soluble guanylate cyclase. Cardiovasc Res. 2006 Jul 15;71(2):393-401. Epub 2006 Mar 22.	
		CIHONSKI et al., Crown ethers in inorganic chemistry - preparation and characterization of group 6 pentacarbonyl hydroxides and fluorides. Inorganic Chem. 1975;14:1717-20.	
		CLARK et al., Measuring left ventricular function in the normal, infarcted and CORM-3-preconditioned mouse heart using complex admittance-derived pressure volume loops. J Pharmacol Methods. Mar-Apr 2009;59(2):94-9.	
		COBURN et al., Endogenous carbon monoxide production in man. J Clin Invest. 1963 Jul;42:1172-8.	
		COCEANI, Carbon monoxide in vasoregulation: the promise and the challenge. Circ Res. 2000 Jun 23;86(12):1184-6. Review.	
		COHEN et al., Dithiobenzoatotetracarbonylmanganese(I). Inorg Chem. 1964;3(11):1641-42.	
		CONANT et al., Trimethylacetaldehyde and dimethylethylacetaldehyde. J Am Chem Soc. 1929;51(4):1246-55.	
		COTTON et al., Dimethyl- and diethyldithiocarbamate complexes of some metal carbonyl compounds. Inorg Chem. 2 Jun 1964;3:1398-1402.	
		COTTON et al., X-ray molecular structures of Mn(CO)5(O2CCF3) and Mn(CO)3(C5H5N)2(O2CCF3). Inorg Chem. 1981;20(4):1287-91.	

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		DE BACKER et al., Role of the soluble guanylyl cyclase alpha1/alpha2 subunits in the relaxant effect of CO and CORM-2 in murine gastric fundus. Naunyn Schmiedebergs Arch Pharmacol. 2008 Nov;378(5):493-502. Epub 2008 Jun 18.			
		DE BACKER et al., Water-soluble CO-releasing molecules reduce the development of postoperative ileus via modulation of MAPK/HO-1 signalling and reduction of oxidative stress. Gut. 2009 Mar;58(3):347-56. Epub 2008 Nov 20.			
		DE FILIPPO et al., Inductive effect in dithiocarbanate decomposition mechanism. J Org Chem. 1973;38(3):560-3.			
		DESMARD et al., A carbon monoxide-releasing molecule (CORM-3) exerts bactericidal activity against Pseudomonas aeruginosa and improves survival in an animal model of bacteraemia. FASEB J. 2009 Apr;23(4):1023-31. Epub 2008 Dec 18.			
		DESMARD et al., Carbon monoxide reduces the expression and activity of matrix metalloproteinases 1 and 2 in alveolar epithelial cells. Cell Mol Biol (Noisy-le-grand). 2005 Sep 30;51(4):403-8.			
		DI PASCOLI et al., Chronic CO levels have [corrected] a beneficial effect on vascular relaxation in diabetes. Biochem Biophys Res Commun. 2006 Feb 17;340(3):935-43. Epub 2005 Dec 27. Erratum in: Biochem Biophys Res Commun. 2006 Mar 14;342(3):1003.			
		DIAMANTIS et al., Preparation and structure of ethylenediaminetetraacetate complexes of ruthenium(II) with dinitrogen, carbon monoxide, and other π-acceptor ligands. Inorg Chem. 1981;20:1142-50.			
		DOUGLAS et al., Preparation of some group VI fluorometal carbonyl derivatives. J Organometal Chem. 1974;65:65-9.			
		DREW et al., Synthesis, spectral properties, and reactions of manganese and rhenium pentacarbonyl phosphine and phosphite cation derivatives and related complexes. Inorg. Chem. 1975;14(7):1579-84.			
		DRÖGE, Free radicals in the physiological control of cell function. Physiol Rev. 2002 Jan;82(1):47-95. Review.			

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		DUCHÈNE et al., Cyclodextrins in targeting. Application to nanoparticles. Adv Drug Deliv Rev. 1999 Mar 1;36(1):29-40.	
		EL-SAYED et al., Catalysis by crown ether complexes - part III effect of cation on the catalytic activity of crown ether - alkali metal halide complexes in the liquid phase oxidation of ethylbenzene. Egypt J Chem. 1979;22(1):23-8.	
		ELLIOTT et al., Nitric oxide: a regulator of mucosal defense and injury. J Gastroenterol. 1998 Dec;33(6):792-803. Review. Abstract only.	
		FAIRLAMB et al., Eta4-pyrone iron(0)carbonyl complexes as effective CO-releasing molecules (CO-RMs). Bioorg Med Chem Lett. 2006 Feb 15;16(4):995-8. Epub 2005 Nov 11.	
		FANG, Antimicrobial reactive oxygen and nitrogen species: concepts and controversies. Nat Rev Microbiol. 2004 Oct;2(10):820-32. Review. Abstract only.	
		FELDMANN et al., Anti-TNF alpha therapy of rheumatoid arthritis: what have we learned? Annu Rev Immunol. 2001;19:163-96. Review.	
		FERRIER et al., FTIR spectrometric study of geometrical isomers of dicarbonyl ferrobiscyteinate influence of the counter cation. J Molec Struct. 1995;344(3):189-93.	
		FERRÁNDIZ et al., Treatment with a CO-releasing molecule (CORM-3) reduces joint inflammation and erosion in murine collagen-induced arthritis. Ann Rheum Dis. 2008 Sep;67(9):1211-7. Epub 2007 Dec 6.	
		FISCHER et al., Methylpyridin-Chrom(O)-Tricarbonyl. Zeitschrift Fur Naturforschung Part-B-Chemie Biochemie Biophysik Biologie Und Verwandten Gebiete. 1959;14:736-7.	✓
		FISCHER et al., Uber aromatenkomplexe von metallen .37. zur aromatenkomplexebildung des pyridins mit chromhexacarbonyl. Chemische berichte-recueil. 1960;93:1156-61. English abstract provided.	✓

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		FISCHER, Crystal structure of 1,4,7,10,13-pentaoxacyclpentadecane sodium bromide, C10H20BrNaO5. Zeitschrift fur kristallographie. 1996;2001:827-8.	✓
		FIUMANA et al., Carbon monoxide mediates vasoconstrictor effects of glutamate in isolated pressurized cerebral arterioles of newborn pigs. Am J Physiol Heart Circ Physiol. 2003 Apr;284(4):H1073-9.	
		FORESTI et al., Reviewing the use of carbon monoxide-releasing molecules (CO-RMs) in biology: implications in endotoxin-mediated vascular dysfunction. Cell Mol Biol (Noisy-le-grand). 2005 Sep 30;51(4):409-23.	
		FORESTI et al., The heme oxygenase pathway and its interaction with nitric oxide in the control of cellular homeostasis. Free Radic Res. 1999 Dec;31(6):459-75. Review.	
		FORESTI et al., Vasoactive properties of CORM-3, a novel water-soluble carbon monoxide-releasing molecule. Br J Pharmacol. 2004 Jun;142(3):453-60. Epub 2004 May 17.	
		FRANGOGIANNIS et al., The inflammatory response in myocardial infarction. Cardiovasc Res. 2002 Jan;53(1):31-47. Review.	
		FRIEBE et al., Sensitizing soluble guanylyl cyclase to become a highly CO-sensitive enzyme. EMBO J. 1996 Dec 16;15(24):6863-8.	
		FRIEBE et al., YC-1 potentiates nitric oxide- and carbon monoxide-induced cyclic GMP effects in human platelets. Mol Pharmacol. 1998 Dec;54(6):962-7.	
		FURCHGOTT et al., Endothelium-dependent and -independent vasodilation involving cyclic GMP: relaxation induced by nitric oxide, carbon monoxide and light. Blood Vessels. 1991;28(1-3):52-61.	
		GIBOREAU et al., Procedure for the preparation of pure dithiocarbamates. J Org Chem. 1994;59:1205-7.	

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		GORDEUK et al., Carbonyl iron therapy for iron deficiency anemia. Blood. 1986 Mar;67(3):745-52.		T ²
		GREENER, Now you're signaling, with gas: gasotransmitters open a window on biology and drug development. The Scientist. 2004;18(17):20.		
		GUO et al., Administration of a CO-releasing molecule at the time of reperfusion reduces infarct size in vivo. Am J Physiol Heart Circ Physiol. 2004 May;286(5):H1649-53. Epub 2004 Jan 2.		
		GÜNTHER et al., Carbon monoxide protects pancreatic beta-cells from apoptosis and improves islet function/survival after transplantation. Diabetes. 2002 Apr;51(4):994-9. MEDLINE Abstract.		
		HAAG et al., Polymer therapeutics: concepts and applications. Angew Chem Int Ed Engl. 2006 Feb 13;45(8):1198-215. Review. Abstract only.		
		HADDLETON et al., [N-Alkyl-(2-pyridyl)methanimine]copper(I) complexes: characterisation and application as catalysts for atom-transfer polymerisation. 7 Dec 1998;1998(11):1799-1806. Abstract only.		
		HADDLETON et al., Atom transfer polymerization of methyl methacrylate mediated by alkylpyridylmethanimine type ligands, copper(I) bromide, and alkyl halides in hydrocarbon solution. Macromolecules. 1999;32(7):2110-19. Abstract only.		
		HADJIGOGOS, The role of free radicals in the pathogenesis of rheumatoid arthritis. Panminerva Med. 2003 Mar;45(1):7-13. Review. Abstract only.		
		HENRICKS et al., Reactive oxygen species as mediators in asthma. Pulm Pharmacol Ther. 2001;14(6):409-20. Review. Abstract only.		
		HERRICK et al., Flash photolytic investigation of photinduced carbon monoxide dissociation from dinuclear manganese carbonyl compounds. Inorg Chem. 1984;23:4550-3.		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/567,157-Conf. #4222
Sheet	20	of	34	Filing Date	June 1, 2006
				First Named Inventor	Roberto Angelo Motterlini
				Art Unit	1614
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		HIEBER et al., Derivate des Mangancarbonyls mit schwefelorganischen Liganden. Chemische Berichte. 1966;99(7):2312-21.	✓
		HITCHON et al., Oxidation in rheumatoid arthritis. Arthritis Res Ther. 2004;6(6):265-78. Epub 2004 Oct 13. Review.	
		HOGG, Free radicals in disease. Semin Reprod Endocrinol. 1998;16(4):241-8. Review. Abstract only.	
		HOLMUHAMEDOV et al., Mitochondrial ATP-sensitive K+ channels modulate cardiac mitochondrial function. Am J Physiol. 1998 Nov;275(5 Pt 2):H1567-76.	
		HOSGOOD et al., Application of nitric oxide and carbon monoxide in a model of renal preservation. Br J Surg. 2008 Aug;95(8):1060-7.	
		HUANG et al., Photolysis of the histidine-heme-CO complex. J Am Chem Soc. 1991;113:9141-4.	
		HUEBERS et al., Absorption of carbonyl iron. J Lab Clin Med. 1986 Nov;108(5):473-8.	
		IGNAT'EV et al., Reactivity of perfluoroalkyl halides towards nucleophiles. Russ J Electrochem. 1995;31(12):1235-9. Translated from Elektrokhimiya. 1995;31(12):1337-42.	✓
		JANDER et al., Neutralisationenanaloge reaktionen in essigaureanhybrid. Zietschrift fur anorganische chemie. 1948;255:238-52. English abstract provided.	✓
		JELLMU et al., Quantitative determination of biologically important thiols and disulfides by gas-liquid chromatography. Analyt Biochem. 1969;31:339-47. Abstract only.	

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		JOHANSEN et al., Spectrophotometric determination of the rates of hydrolysis of aldehyde-releasing pro-drugs in aqueous solution and plasma. Intl J Pharma. 1982 Dec;13(1):89-98. Abstract only.	
		JOHNSON et al., Metal carbonyls as pharmaceuticals? [Ru(CO)3Cl(glycinato)], a CO-releasing molecule with an extensive aqueous solution chemistry. Dalton Trans. 2007 Apr 21;(15):1500-8. Epub 2007 Mar 8.	
		JÓZKOWICZ et al., Heme oxygenase and angiogenic activity of endothelial cells: stimulation by carbon monoxide and inhibition by tin protoporphyrin-IX. Antioxid Redox Signal. 2003 Apr;5(2):155-62.	
		KHARITONOV et al., Basis of guanylate cyclase activation by carbon monoxide. Proc Natl Acad Sci U S A. 1995 Mar 28;92(7):2568-71.	
		KHARITONOV et al., Kinetics and equilibria of soluble guanylate cyclase ligation by CO: effect of YC-1. Biochemistry. 1999 Aug 17;38(33):10699-706.	
		KRUEGER et al., Potential of tumor necrosis factor inhibitors in psoriasis and psoriatic arthritis. Arch Dermatol. 2004 Feb;140(2):218-25. Review.	
		KUIATE et al., Composition of the essential oil from leaves and flowers of Dichrocephala integrifolia (L.) O. Kuntze Chev. From Cameroon. Flavour and Fragrance J. 1999 Nov/Dec;14(6):419-20. Abstract only.	
		LAMBERT et al., O,O'-Diphenyldithiophosphatotetracarbonylmanganese(I) and related compounds. Inorg Chem. 1966;5(7):1287-9.	
		LAWTON et al., Myocardial oxygen consumption in the rabbit heart after ischemia: hyperpolarized arrest with pinacidil versus depolarized hyperkalemic arrest. Circulation. 1997 Nov 4;96(9 Suppl):II-247-52.	
		LEDGER, Carbon monoxide-releasing metal carbonyls: a new class of pharmaceuticals? Drug Disc Today. 2003;8:1096.	

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		LEE et al., Heme oxygenase-1 mediates the anti-inflammatory effect of interleukin-10 in mice. Nat Med. 2002 Mar;8(3):240-6.		T ²
		LEVRAND et al., Controlled release of volatile aldehydes and ketones by reversible hydrazone formation - classical profragrances are getting dynamic. Chem. Commun. 2006;28:2965-7.		
		LI et al., Carbon monoxide protects PC12 cells from peroxynitrite-induced apoptotic death by preventing the depolarization of mitochondrial transmembrane potential. Biochem Biophys Res Commun. 2006 Apr 14;342(3):984-90.		
		LOFTSSON et al., Cyclodextrins in topical drug formulations: theory and practice. Int J Pharm. 2001 Aug 28;225(1-2):15-30. Review.		
		LOVELL et al., Biologic agents for the treatment of juvenile rheumatoid arthritis: current status. Paediatr Drugs. 2004;6(3):137-46.		
		MAHMOUD et al., Potential anticancer agents. XVI. Isolation of bicyclofarnesane sesquiterpenoids from Capsicodendron dinisii. J Nat Prod. 1980 May-Jun;43(3):365-71. Abstract only.		
		MAINES, Heme oxygenase: function, multiplicity, regulatory mechanisms, and clinical applications. FASEB J. 1988 Jul;2(10):2557-68. Review.		
		MARTINS et al., Induction of carbon monoxide in the donor reduces graft immunogenicity and chronic graft deterioration. Transplant Proc. 2005 Jan-Feb;37(1):379-81.		
		MATSUDA et al., Mediators of non-adrenergic non-cholinergic inhibitory neurotransmission in porcine jejunum. Neurogastroenterol Motil. 2004 Oct;16(5):605-12.		
		MATTES et al., Triply bridged thiobenzoato carbonyl manganates(I) and rhenates(I). The crystal and molecular structure of caesium tris(μ -thiobenzoatos(S))bis(tricarbonyl rhenate). J Organometall Chem. 1979 Sept. 25; 178(1):191-6.		

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		MCMILLEN et al., Hydrocarbon bond dissociation energies. Ann Rev Phys Chem. 1982 Oct;33:493-532.		T ²
		MEDER et al., Metallkomplexe mit biologisch wichtigen liganden, XLII [1] carbonylmetallkomplexe mit anionen von mehrfunktionellen alpha-aminosaeuren [Metal complexes with biologically important ligands], XLII [1] carbonyl metal complexes with anions of polyfunctional alpha-amino acids]. Zeitchrift fur Naturforschung;1986:1247-54. German language reference. English abstract provided.		✓
		MEGÍAS et al., The carbon monoxide-releasing molecule tricarbonyldichlororuthenium(II) dimer protects human osteoarthritic chondrocytes and cartilage from the catabolic actions of interleukin-1beta. J Pharmacol Exp Ther. 2008 Apr;325(1):56-61. Epub 2008 Jan 14.		
		MIGUEL et al., Manganese(I) complexes with (tricyclohexylphosphonio)dithiocarboxylate as chelate and unidentate ligand. X-Ray crystal structure of fac-[Mn(CO)3(S2CP(C6H11)3)2]ClO4·H2O. J Chem Soc, Dalton Trans. 1987;12:2875-80.		
		MIKULS et al., Benefit-risk assessment of infliximab in the treatment of rheumatoid arthritis. Drug Saf. 2003;26(1):23-32. Review. Abstract only.		
		MONCADA et al., Nitric oxide: physiology, pathophysiology, and pharmacology. Pharmacol Rev. 1991 Jun;43(2):109-42.		
		MONCADA et al., The discovery of nitric oxide and its role in vascular biology. Br J Pharmacol. 2006 Jan;147 Suppl 1:S193-201.		
		MOORE et al., Brief inhalation of low-dose carbon monoxide protects rodents and swine from postoperative ileus. Crit Care Med. 2005 Jun;33(6):1317-26.		
		MORITA et al., Smooth muscle cell-derived carbon monoxide is a regulator of vascular cGMP. Proc Natl Acad Sci U S A. 1995 Feb 28;92(5):1475-9.		
		MORSE et al., Suppression of inflammatory cytokine production by carbon monoxide involves the JNK pathway and AP-1. J Biol Chem. 2003 Sep 26;278(39):36993-8. Epub 2003 Jul 11.		

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		MOTTERLINI et al., Characterization of vasoactive effects elicited by carbon monoxide-releasing molecules. Abstracts 8th Intl Symposium on Mechanisms of Vasodilation. J Vasc Res. May 31-June 3, 2001;055.	
		MOTTERLINI et al., CORM-A1: a new pharmacologically active carbon monoxide-releasing molecule. FASEB J. 2005 Feb;19(2):284-6. Epub 2004 Nov 19.	
		MOTTERLINI et al., Functional and metabolic effects of propionyl-L-carnitine in the isolated perfused hypertrophied rat heart. Mol Cell Biochem. 1992 Oct 21;116(1-2):139-45.	
		MOTTERLINI et al., Therapeutic applications of carbon monoxide-releasing molecules. Expert Opin Investig Drugs. 2005 Nov;14(11):1305-18. Review.	
		MOTTERLINI, Vasoactive properties of carbon monoxide-releasing molecules. Biomed Pharmacother. 2002;56(7):349-50.	
		MOYA et al., Metal carbonyl complexes containing heterocyclic nitrogen ligands: Part IX. MnBr(CO)(3(3,3'-R-2,2'-biquinoline) compounds. Polyhedron. 1 Mar 2002; 21(4):439-44. Abstract only.	
		MUNGRUE et al., From molecules to mammals: what's NOS got to do with it? Acta Physiol Scand. 2003 Oct;179(2):123-35. Review. Abstract only.	
		MUSAMEH et al., Improved myocardial function after cold storage with preservation solution supplemented with a carbon monoxide-releasing molecule (CORM-3). J Heart Lung Transplant. 2007 Nov;26(11):1192-8.	
		MUSAMEH et al., Positive inotropic effects of carbon monoxide-releasing molecules (CO-RMs) in the isolated perfused rat heart. Br J Pharmacol. 2006 Dec;149(8):1104-12. Epub 2006 Oct 23.	
		NAGAI et al., Unusual CO bonding geometry in abnormal subunits of hemoglobin M Boston and hemoglobin M Saskatoon. Biochemistry. 1991 Jul 2;30(26):6495-503.	

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		NAKAO et al., Carbon monoxide inhalation protects rat intestinal grafts from ischemia/reperfusion injury. Am J Pathol. 2003 Oct;163(4):1587-98.	
		NAKAO et al., Protective effect of carbon monoxide in transplantation. J Cell Mol Med. 2006 Jul-Sep;10(3):650-71. Review.	
		NATHAN, Points of control in inflammation. Nature. 2002 Dec 19-26;420(6917):846-52. Review.	
		NDISANG et al., Modulation of the immunological response of guinea pig mast cells by carbon monoxide. Immunopharmacology. 1999 Jun;43(1):65-73.	
		NETO et al., Protection of transplant-induced renal ischemia-reperfusion injury with carbon monoxide. Am J Physiol Renal Physiol. 2004 Nov;287(5):F979-89. Epub 2004 Aug 3.	
		NITSCHKE et al., Properties of (trifluoromethanesulfonato)pentacarbonylmanganese(I) and -rhenium(I). Reactions in superacid solvents. Inorg Chem. 1985;24(13):1972-8.	
		NOBRE et al., Antimicrobial action of carbon monoxide-releasing compounds. Antimicrob Agents Chemother. 2007 Dec;51(12):4303-7. Epub 2007 Oct 8.	
		NUDELMAN et al., Prodrugs of butyric acid. Novel derivatives possessing increased aqueous solubility and potential for treating cancer and blood diseases. Eur J Med Chem. Jan 2001;36(1):63-74. Abstract only.	
		NUDELMAN et al., The role of intracellularly released formaldehyde and butyric acid in the anticancer activity of acyloxyalkyl esters. J. Med. Chem.. 22 Jan 2005;48(4):1042-54. Abstract only.	
		NYDEGGER et al., New concepts in organ preservation. Transpl Immunol. 2002 May;9(2-4):215-25.	

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		O'BRIEN et al., Aldehyde sources, metabolism, molecular toxicity mechanisms, and possible effects on human health. Crit Rev Toxicol. 2005 Aug;35(7):609-62. Review.			
		OTTERBEIN et al., Carbon monoxide suppresses arteriosclerotic lesions associated with chronic graft rejection and with balloon injury. Nat Med. 2003 Feb;9(2):183-90. Epub 2003 Jan 21.			
		OTTERBEIN et al., Heme oxygenase-1: unleashing the protective properties of heme. Trends Immunol. 2003 Aug;24(8):449-55. Review.			
		OZAWA et al., Leydig cell-derived heme oxygenase-1 regulates apoptosis of premeiotic germ cells in response to stress. J Clin Invest. 2002 Feb;109(4):457-67.			
		PAE et al., Carbon monoxide produced by heme oxygenase-1 suppresses T cell proliferation via inhibition of IL-2 production. J Immunol. 2004 Apr 15;172(8):4744-51.			
		PAINTNER et al., Synthesis and antimicrobial activity of tetrodecamycin partial structures. Bioorg Med Chem. 2003 Jul;11(13):2823-33. Abstract only.			
		PANKEY et al., Clinical relevance of bacteriostatic versus bactericidal mechanisms of action in the treatment of Gram-positive bacterial infections. Clin Infect Dis. 2004 Mar 15;38(6):864-70. Epub 2004 Mar 1. Review.			
		PATEL et al., Preparation of (η 5-cyclopentadienyl) and (η 5-Methylcyclopentadienyl)Fe(CO)2Me cyclodextrin inclusion compounds and their subsequent ligand substitution reactions. Attempts at cyclodextrin mediated enantioselective ligand substitution. J Organometal Chem. 1997;547:103-112.			
		PELOSO et al., Expanding the armamentarium for the spondyloarthropathies. Arthritis Res Ther. 2004;6 Suppl 2:S36-43. Epub 2004 Jun 21.			
		PIANTADOSI, Biological chemistry of carbon monoxide. Antioxid Redox Signal. 2002 Apr;4(2):259-70. Review.			

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		PNEUMATIKAKIS et al., Interactions of bis-[μ-chloro-chlorotrichloromethylruthenium(II) and poly-[μ-dichloro-dicarbonyl]ruthenium (II)] with nucleotides. Inorg Chemica Acta. 1988;151:243-8.			
		QUICK et al., Pentacarbonylmanganese halides. In Inorganic Syntheses, Vol. 19. Duward F. Shriver., Ed. Inorganic Syntheses, Inc. 1979:158-63.			
		RATTAN et al., Mechanism of internal anal sphincter relaxation by CORM-1, authentic CO, and NANC nerve stimulation. Am J Physiol Gastrointest Liver Physiol. 2004 Sep;287(3):G605-11.			
		REHDER et al., 55Mn NMR characteristics of carbonylmanganese complexes with hetero-substituted dithioformato-, thioformamido- and thioformamide ligands [1]. Inorg Chim Acta. 1983;73:243-7. Abstract only.			
		REIMANN et al., Reactions of metal carbonyls. Part III. Steric and stereochemical limitations of higher substitution of manganese carbonyl bromide. J Chem Soc Dalton Trans. 1973;841-6. Abstract only.			
		RODELLA et al., Carbon monoxide and biliverdin prevent endothelial cell sloughing in rats with type I diabetes. Free Radic Biol Med. 2006 Jun 15;40(12):2198-205. Epub 2006 Mar 20.			
		RUTKOWSKA-ZBIK et al., Theoretical density functional theory studies on interactions of small biologically active molecules with isolated heme group. J Comput Chem. 2007 Mar;28(4):825-31.			
		RYAN et al., Renal vascular responses to CORM-A1 in the mouse. Pharmacol Res. 2006 Jul;54(1):24-9. Epub 2006 Mar 9.			
		RYTER et al., Carbon monoxide in biology and medicine. Bioessays. 2004 Mar;26(3):270-80.			
		RYTER et al., Carbon monoxide: to boldly go where NO has gone before. Sci STKE. 2004 Apr 20;2004(230):RE6. Review.			

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		RYTER et al., Heme oxygenase-1/carbon monoxide: from basic science to therapeutic applications. Physiol Rev. 2006 Apr;86(2):583-650. Review.	
		RYTER et al., Heme oxygenase/carbon monoxide signaling pathways: regulation and functional significance. Mol Cell Biochem. 2002 May-Jun;234-235(1-2):249-63. Review.	
		SACKS et al., Comparative bioavailability of elemental iron powders for repair of iron deficiency anemia in rats. Studies of efficacy and toxicity of carbonyl iron. Am J Clin Nutr. 1978 Apr;31(4):566-71.	
		SALAZAR-SALINAS et al., Molecular biosensor based on a coordinated iron complex. J Chem Phys. 2009 Mar 14;130(10):105101.	
		SANDBORN, Strategies for targeting tumour necrosis factor in IBD. Best Pract Res Clin Gastroenterol. 2003 Feb;17(1):105-17. Review.	
		SANDOUKA et al., Carbon monoxide-releasing molecules (CO-RMs) modulate respiration in isolated mitochondria. Cell Mol Biol (Noisy-le-grand). 2005 Sep 30;51(4):425-32.	
		SANDOUKA et al., Treatment with CO-RMs during cold storage improves renal function at reperfusion. Kidney Int. 2006 Jan;69(2):239-47.	
		SARADY et al., Carbon monoxide protection against endotoxic shock involves reciprocal effects on iNOS in the lung and liver. FASEB J. 2004 May;18(7):854-6. Epub 2004 Mar 4.	
		SAWLE et al., Carbon monoxide-releasing molecules (CO-RMs) attenuate the inflammatory response elicited by lipopolysaccharide in RAW264.7 murine macrophages. Br J Pharmacol. 2005 Jul;145(6):800-10.	
		SAWLE et al., Homocysteine attenuates endothelial haem oxygenase-1 induction by nitric oxide (NO) and hypoxia. FEBS Lett. 2001 Nov 23;508(3):403-6.	

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		SCHMIDT et al., Manganese(I) and rhenium(I) pentacarbonyl(Trifluoromethanesulfonato) complexes. In Inorganic Syntheses, Ed. Herbert D. Kaesz. Inorganic Syntheses, Inc. 1989;113-7.	
		SCHUBERT, The action of carbon monoxide on iron and cobalt complexes of cysteine. Carbon Monoxide on Iron and Cobalt Cysteine Complexes. 1933;55:4563-70.	
		SHAPIRO, Carbonyl-trapping therapeutic strategies. Am J Ther. 1998 Sep;5(5):323-53. Review.	
		SHIOHIRA et al., Protective effect of carbon monoxide donor compounds in endotoxin-induced acute renal failure. Am J Nephrol. 2007;27(5):441-6. Epub 2007 Jul 12.	
		SILVER et al., Mossbauer studies on protoporphyrin IX iron (II) solutions containing sulphur ligands and their carbonyl adducts. Inorg Chimica Acta. 1984;9:279-83.	
		SJÖSTRAND, Endogenous formation of carbon monoxide in man under normal and pathological conditions. Scan J Clin Lab Invest. 1949;1:201-14.	
		SKATTEBØL et al., Synthesis of (\pm)-Lineatin, an aggregation pheromone component of Trypodendron lineatum. Acta Chem Scand B. 1985;39:291-304.	
		SONG et al., Carbon monoxide inhibits T lymphocyte proliferation via caspase-dependent pathway. J Immunol. 2004 Jan 15;172(2):1220-6.	
		SPECTOR, Review: Oxidative stress and disease. J Ocul Pharmacol Ther. 2000 Apr;16(2):193-201. Review. Abstract only.	
		SRISOOK et al., CO from enhanced HO activity or from CORM-2 inhibits both O ₂ - and NO production and downregulates HO-1 expression in LPS-stimulated macrophages. Biochem Pharmacol. 2006 Jan 12;71(3):307-18. Epub 2005 Dec 2.	

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		SRISOOK et al., Role of NO in enhancing the expression of HO-1 in LPS-stimulated macrophages. Methods Enzymol. 2005;396:368-77.	
		STAAL et al., The syntheses and coordination properties of M(CO)3X(DAB) (M = Mn, Re; X = Cl, Br, I; DAB = 1,4-diazabutadiene). J Organometal Chem. 1 May 1979;170(2):235-45. Abstract only.	
		STAGNI et al., A water-soluble carbon monoxide-releasing molecule (CORM-3) lowers intraocular pressure in rabbits. Br J Ophthalmol. 2009 Feb;93(2):254-7. Epub 2008 Oct 31.	
		STANFORD et al., Carbon monoxide inhibits endothelin-1 release by human pulmonary artery smooth muscle cells. Eur J Pharmacol. 2004 Feb 23;486(3):349-52.	
		STANFORD et al., Heme oxygenase is expressed in human pulmonary artery smooth muscle where carbon monoxide has an anti-proliferative role. Eur J Pharmacol. 2003 Jul 25;473(2-3):135-41.	
		STEC et al., Heme oxygenase-1 induction does not improve vascular relaxation in angiotensin II hypertensive mice. Am J Hypertens. 2008 Feb;21(2):189-93. Epub 2008 Jan 3.	
		STEIN et al., Administration of a CO-releasing molecule induces late preconditioning against myocardial infarction. J Mol Cell Cardiol. 2005 Jan;38(1):127-34. Epub 2004 Dec 8.	
		STONE et al., Soluble guanylate cyclase from bovine lung: activation with nitric oxide and carbon monoxide and spectral characterization of the ferrous and ferric states. Biochemistry. 1994 May 10;33(18):5636-40.	
		SUN et al., Attenuation of leukocytes sequestration by carbon monoxide-releasing molecules: liberated carbon monoxide in the liver of thermally injured mice. J Burn Care Res. 2007 Jan-Feb;28(1):173-81.	
		SUN et al., CO-releasing molecules (CORM-2)-liberated CO attenuates leukocytes infiltration in the renal tissue of thermally injured mice. Int J Biol Sci. 2008 Jun 16;4(3):176-83.	

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		SUN et al., Preconditioning of carbon monoxide releasing molecule-derived CO attenuates LPS-induced activation of HUVEC. Int J Biol Sci. 2008 Aug 22;4(5):270-8.		T ²
		SUN et al., Role of CO-releasing molecules liberated CO in attenuating leukocytes sequestration and inflammatory responses in the lung of thermally injured mice. J Surg Res. 2007 May 1;139(1):128-35. Epub 2007 Feb 9.		
		SUZUKI et al., Activated platelets in ulcerative colitis enhance the production of reactive oxygen species by polymorphonuclear leukocytes. Scand J Gastroenterol. 2001 Dec;36(12):1301-6. Abstract only.		
		SZAKÁCS-SCHMIDT et al., Iron (II) thiolates as reversible carbon monoxide carriers. Inorg Chimica Acta. 1992;198-200:401-5.		
		SZALLASI et al., Dialdehyde sesquiterpenes and other terpenoids as vanilloids. Eur J Pharmacol. 1998 Aug 28;356(1):81-9. Abstract only.		
		TAILLÉ et al., Mitochondrial respiratory chain and NAD(P)H oxidase are targets for the antiproliferative effect of carbon monoxide in human airway smooth muscle. J Biol Chem. 2005 Jul 8;280(27):25350-60. Epub 2005 Apr 29.		
		TAKÁCS et al., Synthesis and molecular structure of carbonyl derivatives of Iron (II) thiolates containing nitrogen-donor ligands. Inorg Chemica Acta. 1989;166:39-46.		
		TAYEM et al., Protection against cisplatin-induced nephrotoxicity by a carbon monoxide-releasing molecule. Am J Physiol Renal Physiol. 2006 Apr;290(4):F789-94. Epub 2005 Nov 15.		
		TILG et al., Antitumour necrosis factor therapy in Crohn's disease. Expert Opin Biol Ther. 2002 Oct;2(7):715-21. Review. Abstract only.		
		TOMITA et al., Structure and reaction of bis(L-cysteinato)dicarbonyliron(II). Inorg Nucl Chem Lett. 1968;4:715-8.		

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		TREICHEL et al., Synthesis and reactivity of bridging thiolato-manganese carbonyl complexes, Et ₄ N[Mn ₂ (μ-SR) ₃ (CO) ₆]. J Organometall Chem. 1985 Sept 10;292(3):385-93.			
		URBAN et al., Metal complexes of biologically important ligands, LXXXVII α-amino carboxylate complexes of palladium(II), iridium(III) and ruthenium (II) from chloro-bridged ortho-metallated metal compounds and [(OC) ₃ Ru(Cl)(μ-Cl)] ₂ . J Organomett Chem. 1996;517:191-200.			
		URWYLER et al., Positive allosteric modulation of native and recombinant gamma-aminobutyric acid(B) receptors by 2,6-Di-tert-butyl-4-(3-hydroxy-2,2-dimethyl-propyl)-phenol (CGP7930) and its aldehyde analog CGP13501. Mol Pharmacol. 2001 Nov;60(5):963-71.			
		VAN STAVEREN et al., Spectroscopic Properties, Electrochemistry, and Reactivity of Mo ₀ , Mo ₁ , and Mo ₂ Complexes with the [Mo(bpa)(CO) ₃] Unit [bpa = bis(2-picoly)amine] and Their Application for the Labelling of Peptides. Eur J Inorg Chem. 2002;6:1518-29.			
		VANNACCI et al., Evaluation of the effects of a novel carbon monoxide releasing molecule (CORM-3) in an in vitro model of cardiovascular inflammation. 1. Histamine in allergy, inflammation, tissue growth and repair. Inflamm Res. 2006 Apr;55 Suppl 1:S05-6.			
		VANNACCI et al., The effect of a carbon monoxide-releasing molecule on the immunological activation of guinea-pig mast cells and human basophils. Inflamm Res. 2004;53 Suppl 53:S09-10.			
		VARADI et al., Beneficial effects of carbon monoxide-releasing molecules on post-ischemic myocardial recovery. Life Sci. 2007 Apr 3;80(17):1619-26. Epub 2007 Feb 2.			
		VERA et al., Protective effect of carbon monoxide-releasing compounds in ischemia-induced acute renal failure. J Am Soc Nephrol. 2005 Apr;16(4):950-8. Epub 2005 Feb 23.			
		VERONA et al., Regioselectivity in the nucleophilic functionalization of xanthene complexes of Mn(CO) ₃ . J Organelle Chem. 1 Nov 1996;524(1-2):71-80.			
		VOLTI et al., Carbon monoxide signaling in promoting angiogenesis in human microvessel endothelial cells. Antiox Redox Signal. May 2005;7(5-6):704-10.			

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		VREMAN et al., Determination of carbon monoxide (CO) in rodent tissue: effect of heme administration and environmental CO exposure. Anal Biochem. 2005 Jun 15;341(2):280-9. Abstract only.	
		WANG et al., A correlation of the visible and Soret spectra of dioxygen- and carbon monoxide-heme complexes and five-coordinate heme complexes with the spectra of oxy-, carboxy-, and deoxyhemoglobins. Biochemistry. 1979 Oct 30;18(22):4960-77.	
		WANG et al., Preconditioning limits mitochondrial Ca(2+) during ischemia in rat hearts: role of K(ATP) channels. Am J Physiol Heart Circ Physiol. 2001 May;280(5):H2321-8.	
		WANG et al., The chemical modification of KCa channels by carbon monoxide in vascular smooth muscle cells. J Biol Chem. 1997 Mar 28;272(13):8222-6.	
		WEIGEL et al., Inhibition of DNA replication in Escherichia coli by cyanide and carbon monoxide. J Biol Chem. 1975 Nov 10;250(21):8536-42.	
		WU et al., Carbon monoxide: endogenous production, physiological functions, and pharmacological applications. Pharmacol Rev. 2005 Dec;57(4):585-630. Review.	
		WU et al., Different mechanisms underlying the stimulation of K(Ca) channels by nitric oxide and carbon monoxide. J Clin Invest. 2002 Sep;110(5):691-700.	
		XI et al., Carbon monoxide activates KCa channels in newborn arteriole smooth muscle cells by increasing apparent Ca2+ sensitivity of alpha-subunits. Am J Physiol Heart Circ Physiol. 2004 Feb;286(2):H610-8. Epub 2003 Oct 16.	
		XU et al., A facile method for synthesis of (R)-(-) and (S)-(+) homocitric acid lactones and related α-hydroxy dicarboxylic acids from d- or l-malic acid. Tetrahedron Lett. 30 May 2005;46(22):3815-18. Abstract only.	
		YACHIE et al., Oxidative stress causes enhanced endothelial cell injury in human heme oxygenase-1 deficiency. J Clin Invest. 1999 Jan;103(1):129-35.	

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		YAN et al., Cytotoxicity of rhenium(I) alkoxo and hydroxo carbonyl complexes in murine and human tumor cells. Pharmazie. 2000 Apr;55(4):307-13.			
		ZHANG et al., Carbon monoxide inhibition of apoptosis during ischemia-reperfusion lung injury is dependent on the p38 mitogen-activated protein kinase pathway and involves caspase 3. J Biol Chem. 2003 Jan 10;278(2):1248-58. Epub 2002 Oct 23.			
		ZIMMERMAN et al., Cerebroprotective effects of the CO-releasing molecule CORM-A1 against seizure-induced neonatal vascular injury. Am J Physiol Heart Circ Physiol. Oct 2007;293:H2501-H2507.			
		ZUCKERBRAUN et al., Carbon monoxide protects against the development of experimental necrotizing enterocolitis. Am J Physiol Gastrointest Liver Physiol. 2005 Sep;289(3):G607-13. Epub 2005 May 12.			
		ZUCKERBRAUN et al., Carbon monoxide reverses established pulmonary hypertension. J Exp Med. 2006 Sep 4;203(9):2109-19. Epub 2006 Aug 14.			

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